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10/743.941

12/23/2003

Lou et al.

### Group Art Unit

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MP0354

## NON PATENT LITERATURE DOCUMENTS

[illegible]

/Kevin M Burd/

05/03/2007

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<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 1 of 2	ATTORNEY DOCKET No.	SERIAL No.
	MP0349	10/743,941
	APPLICANT	
	Teo, Swee-Ann et al.	
	FILING DATE	GROUP
	December 23, 2003	To Be Assigned

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.						

FOREIGN PATENT DOCUMENTS						
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.	/KMB/	ANSI/IEEE Std. 802.11, 1999 Edition; Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements; pp. 1-512.
2.		IEEE P802.11g/D8.2 April 2003 (Supplement to ANSI/IEEE std. 802.11 1999(Reaff 2003)) Draft Supplement Standard for Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements; Further Higher Data Rate Extension in the 2.4 GHz Band; pp. 1-69.
3.		IEEE Std. 802.11a-1999; Supplement to IEEE Standard for Information Technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements; Part: 11 Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications; High-speed Physical Layer in the 5 GHz Band; pp. 1-83.
4.	/KMB/	IEEE Std. 802.11b; Supplement to IEEE Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements; Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications; Higher-Speed Physical Layer Extension in the 2.4 GHz Band; Approved September 16, 1999; pp. 1-89.

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Sheet 2 of 2

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5.	/KMB/	IEEE Std. 802.11b-1999/Cor 1-2001; IEEE Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements; Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Amendment 2: Higher-speed Physical Layer (PHY) extension in the 2.4 GHz band - Corrigendum 1; pp. 1-15.
6.	/KMB/	IEEE Std. 802.16; IEEE Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed Broadband Wireless Access Systems; April 8, 2002; pp. 1-322.
7.	/KMB/	IEEE Std. 802.16a; IEEE Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Amendment 2: Medium Access Control Modifications and Additional Physical Layer Specifications for 2-11 GHz; April 1, 2003; pp. 1-292.

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U.S. PATENT DOCUMENTS						
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1.	/KMB/	2003/0095573 A1	05/22/2003	Vook et al.		
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1.	/KMB/	Catreux/Erceg/Gesbert/Heath, "Adaptive Modulation and MIMO Coding for Broadband Wireless Data Networks", IEEE Communications Magazine, June 2002, pp. 108-115.
2.		Chizhik/Foschini/Gans/Valenzuela, "Keyholes, Correlations, and Capacities of Multielement Transmit and Receive Antennas", IEEE Transactions on Wireless Communications, Vol. 1, No. 2, April 2002, pp. 361-368.
3.		Driessen/Foschini, "Transactions Letters On the Capacity Formula for Multiple Input-Multiple Output Wireless Channels: A Geometric Interpretation", IEEE Transactions on Communications, Vol. 47, No. 2, February 1999, pp. 173-176.
4.	↓	Foschini/Gans, "On Limits of Wireless Communications in a Fading Environment when Using Multiple Antennas", Wireless Personal Communications 6: pp. 311-335, 1998.
5.	/KMB/	Goldsmith/Chua, "Variable-Rate Variable-Power MQAM for Fading Channels", IEEE Transactions on Communications, VOL. 45, No. 10, October 1997, pp. 1218-1230.

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6.	/KMB/	Goldsmith/Jafar/Jindal/Vishwanath, "Fundamental Capacity of MIMO Channels", Department of Electrical Engineering, Stanford University, November 8, 2002, pp. 1-36.
7.		<a href="http://www.chipcenter.com/wireless/images/app007_Fig1.jpg">http://www.chipcenter.com/wireless/images/app007_Fig1.jpg</a> , Figure 1: MIMO applied to OFDM (JPEG image 350x230 pixels).
8.		<a href="http://www.chipcenter.com/wireless/images/app007_Fig3.jpg">http://www.chipcenter.com/wireless/images/app007_Fig3.jpg</a> , Figure 3: The MIMO Principle (JPEG image 350x190 pixels).
9.		Mujtaba/Grewe, <a href="http://chipcenter.com/wireless/app007-2html?PRINT=true">http://chipcenter.com/wireless/app007-2html?PRINT=true</a> , Wireless Application Note, "Taking Wireless Networking to the Next Performance Plateau", pp. 1-3.
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11.		Seong/Kim, "Adaptive Modulation for MIMO Systems in Time-Varying Channels", EE359 Wireless Communications Fall 2002 Term Project, pp. 1-21.
12.		Winters, "On the Capacity of Radio Communication Systems with Diversity in a Rayleigh Fading Environment", IEEE Journal on Selected Areas in Communications, Vol. SAC-5, No. 5, June 1987, pp. 871-878.
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